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		Application No.	Applicant(s)	A	
0.7	Allowability	10/705,998	MA ET AL.		
Notice of Allo		Examiner	Art Unit		
\		Sherry L Estremsky	3681		
The MAILING DATE of a All claims being allowable, PROSECU herewith (or previously mailed), a Notice NOTICE OF ALLOWABILITY IS NOT of the Office or upon petition by the application. This communication is responsite.	FION ON THE MERITS IS (te of Allowance (PTOL-85) of A GRANT OF PATENT RIC plicant. See 37 CFR 1.313	or other appropriate communication GHTS. This application is subject to and MPEP 1308.	olication. If not include will be mailed in due	led course. THIS	
<u> </u>					
2. The allowed claim(s) is/are 1-14					
3. The drawings filed on 12 Novem	nber 2003 are accepted by t	he Examiner.			
4. ☐ Acknowledgment is made of a a) ☐ All b) ☐ Some* c)	☐ None of the:				
	ne priority documents have				
•	•	been received in Application No			
 •		uments have been received in this	national stage applica	ation from the	
* Certified copies not received:	ı (PCT Rule 17.2(a)).				
Applicant has THREE MONTHS FRO noted below. Failure to timely comply THIS THREE-MONTH PERIOD IS N	DM THE "MAILING DATE" or y will result in ABANDONME		complying with the re	quirements	
5. A SUBSTITUTE OATH OR DECINFORMAL PATENT APPLICAT		ted. Note the attached EXAMINER' s reason(s) why the oath or declara		NOTICE OF	
6. CORRECTED DRAWINGS (as	replacement sheets") must	be submitted.			
(a) including changes required	by the Notice of Draftsperso	on's Patent Drawing Review (PTO-	948) attached		
1) ☐ hereto or 2) ☐ to F	aper No./Mail Date				
(b) ☐ including changes required Paper No./Mail Date	by the attached Examiner's	Amendment / Comment or in the C	ffice action of		
Identifying indicia such as the applic each sheet. Replacement sheet(s) sh				e back) of	
7. DEPOSIT OF and/or INFORM attached Examiner's comment re		it of BIOLOGICAL MATERIAL not on the DEPOSIT OF BIOLOGICA		Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO	-892)	5. Notice of Informal P	atent Application (PT	O-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		6. ☐ Interview Summary	* * * * * * * * * * * * * * * * * * * *		

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

of Biological Material

3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
 Paper No./Mail Date 1-12-04
 4. ☐ Examiner's Comment Regarding Requirement for Deposit

Paper No./Mail Date _____.

7. Examiner's Amendment/Comment

9. Other ____.

8.

Examiner's Statement of Reasons for Allowance

DETAILED ACTION

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

To improve the form of the abstract and to correct an obvious typographical error, the application has been amended as follows:

in the abstract, lines 1-2, "is disclosed, which" was deleted; in claim 1, line 10, "shaft" was changed to --shafts--.

2. The following is an examiner's statement of reasons for allowance:

No reference nor combination of references was found which teaches a transmission mechanism of an automotive vehicle with a differential mechanism including left and right side bevel gears, a gear and a dual tandem gear mounted on a shaft passing through the differential mechanism, and two rear wheel output shafts, wherein a gear is mounted on each of the rear wheel output shafts, the gears being engaged with the left and right side bevel gears, and two front wheel output shafts are removably connected with the two rear wheel output shafts.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

U. S. Patent 1,480,856 (Enochs) January 1924 - discloses a caseless differential with one bevel

side gear meshing with a gear on a rear wheel output shaft and another bevel side gear meshing

with a gear on a second rear wheel output shaft which is parallel to the first. A shaft passing

through the differential includes a dual tandem gear and an additional gear.

U. S. Patent 1,742,744 (Wyman) January 1930 - discloses a caseless differential with one bevel

side gear meshing with a gear on a rear wheel output shaft and another bevel side gear meshing

with a gear on a second rear wheel output shaft.

U. S. Patent 2,242,605 (Casner) May 1941 - discloses a caseless differential with one bevel side

gear meshing with a gear on a rear wheel output shaft and another bevel side gear meshing with a

gear on a second rear wheel output shaft.

U. S. Patent 2,537,060 (Keese) January 1951 - discloses a caseless differential with one bevel

side gear meshing with a gear on a rear wheel output shaft and another bevel side gear meshing

with a gear on a second rear wheel output shaft. The shaft that provides input to (but does not

pass through) the differential includes dual tandem gears with which sliding gears selectively

mesh.

U. S. Patent 2,674,892 (Keese et al.) April 1954 - discloses a caseless differential with one bevel

side gear meshing with a gear on a rear wheel output shaft and another bevel side gear meshing

with a gear on a second rear wheel output shaft. The shaft that provides input to (but does not

pass through) the differential includes dual tandem gears with which sliding gears selectively

mesh.

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U. S. Patent 4,299,140 (Kako et al.) November 1981 - discloses a four-wheel drive transfer case with a caseless differential having a shaft supplying input that passes through the differential.

U. S. Patent 6,843,748 (Ma et al.) January 2005 - discloses a transmission and differential for a four-wheel drive vehicle. Various gears are mounted on shafts passing into the differential, including a dual tandem gear. A sliding gear on a propeller shaft includes an inner gear and an outer gear.

Any inquiry concerning this communication or earlier communications from the 4. examiner should be directed to Sherry L Estremsky whose telephone number is (703) 308-2164. The examiner can normally be reached on Tuesday and Friday from 7:30 a.m. to 6:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on (703) 308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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